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(FILE 'HOME' ENTERED AT 15:58:43 ON 14 MAY 2002) FILE 'BIOSIS, MEDLINE, SCISEARCH' ENTERED AT 15:59:11 ON 14 MAY 2002 4673 S PROLIFERATIVE (A) LESION OR NEOINTIMA (A) FORMATION Ll 17 S L1 AND E2F L2 1271 S L1 AND PY<=1993 L3 1 S L3 AND E2F L4 => s proliferative(a)lesion or neointima 7541 PROLIFERATIVE (A) LESION OR NEOINTIMA => s 15 and py<=1993 1 FILES SEARCHED... 1880 L5 AND PY<=1993 s proliferative(a)lesion or neointima? 11997 PROLIFERATIVE (A) LESION OR NEOINTIMA? => s 17 and py<=1993 1 FILES SEARCHED . . . 2443 L7 AND PY<=1993 => s 18 and E2F 1 L8 AND E2F L9 => d ibib abs L9 ANSWER 1 OF 1 SCISEARCH COPYRIGHT 2002 ISI (R) ACCESSION NUMBER: 93:392811 SCISEARCH THE GENUINE ARTICLE: LH704 THE BIOLOGY OF HUMAN PAPILLOMAVIRUSES - FROM WARTS TO TITLE: CANCER LAIMINS L A (Reprint) CORPORATE SOURCE: UNIV CHICAGO, HOWARD HUGHES MED INST, DEPT MOLEC GENET & CELL BIOL, COMM VIROL, CHICAGO, IL, 60637 (Reprint) COUNTRY OF AUTHOR: USA INFECTIOUS AGENTS AND DISEASE-REVIEWS ISSUES AND SOURCE: COMMENTARY, (APR 1993) Vol. 2, No. 2, pp. 74-86. ISSN: 1056-2044. DOCUMENT TYPE: Article: Journal FILE SEGMENT: LIFE LANGUAGE: ENGLISH REFERENCE COUNT: 143 *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS* Papillomaviruses are small DNA viruses that induce a variety of proliferative lesions in most mammals, including humans. Of the 66 types of human papillomaviruses (HPVs) that have been identified, a subset that includes types 16, 18, 31, 33, and 51 is associated frequently with anogenital cancers. These cancers develop from precursor lesions, which, for cervical cancer, are termed cervical intraepithelial neoplasias (CIN), and are graded from I to III depending on the degree of disruption of epithelial differentiation. Viral production occurs in low-grade lesions that are only slightly alterated in their pattern of differentiation from normal cells. The production of viral particles, genome amplification, capsid protein synthesis, and virion assembly is dependent upon differentiation and is restricted to suprabasal cells. In carcinomas, viral DNA is usually found integrated into host chromosome, and no viral production is seen. The processes of viral transcription and replication are, therefore, intimately associated with the differentiation program of epithelial cells. In the past, studies on the life cycle of human papillomavirus have been limited due to an inability to faithfully duplicate the epithelial differentiation program in vitro. Recent advances in culture systems, have overcome these problems, allowing for the propagation of HPVs in vitro. In addition, insight has been gained at the molecular level regarding the mechanisms by which these viruses contribute to malignancy, centering on the action of the E6 and E7 viral oncoproteins. Evidence suggests that these oncoproteins function by inactivating the cell cycle regulators p53 and

=> s proliferative(a)lesion or neointima? or cell(a)proliferation
L10 161102 PROLIFERATIVE(A) LESION OR NEOINTIMA? OR CELL(A) PROLIFERATION

retinoblastoma, thus providing the initial event in a multistep

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progression to malignancy.

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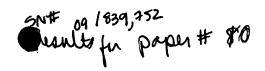
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